EXTRA PRACTICE 13
Solving Inequalities
Use after Section 2.7 **Name**_____

Examples: Solve.

a) $5x - 9 > 6$
$5x > 15$
$x > 3$
The solution set is $\{x | x > 3\}$.

b) $4x + 3 \le 7x + 9$
$-3x \le 6$
$x \ge -2$
The solution set is $\{x | x \ge -2\}$.

Solve.

1. $y + 3 > 9$ _____
2. $x - 7 \ge -3$ _____
3. $5x < 35$ _____
4. $3a + 2 \ge 8$ _____
5. $8x + 3 < 7x + 4$ _____
6. $-9y > 63$ _____
7. $5x - 9 \ge 2$ _____
8. $3x + 4 \le -2$ _____
9. $10y - 7 > -2y + 17$ _____
10. $3t - 1 \le 8t + 24$ _____
11. $\frac{3}{4}x < 7$ _____
12. $8y - 7 > 3 - 2y$ _____
13. $6y + 5 \ge 4y + 7$ _____
14. $2m - 1 \ge 5m - 7$ _____

EXTRA PRACTICE 13 (continued)
Solving Inequalities
Use after Section 2.7

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15. $5 + 6x > 9 - x$ _____

16. $10x + 7 \le 7x - 5$ _____

17. $3x + 1 < 16$ _____

18. $5x - 4 > 21$ _____

19. $8y - 11 \ge 7y + 2$ _____

20. $3m - 4 < 7m - 16$ _____

21. $-3x \le \frac{1}{4}$ _____

22. $\frac{3}{2}y > -6$ _____

23. $x + 2 \ge 3x - 4$ _____

24. $7x < 2x + 15$ _____

25. $x - \frac{1}{2} > \frac{1}{3}$ _____

26. $y + \frac{2}{3} \le \frac{5}{6}$ _____

27. $15 - 3x > 4x - 13$ _____

28. $-2 < 5x + 8 - 3x$ _____

29. $17 < 5 - 4y$ _____

30. $31 > 7 - 6y$ _____